

04C0
#10
3/29/02

OIPE

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/651,236DATE: 09/12/2000
TIME: 12:37:27Input Set : A:\427c18.app
Output Set: N:\CRF3\09122000\I651236.raw

3 <110> APPLICANT: Xu, Jiangchun
4 Dillon, Davin C.
5 Mitcham, Jennifer L.
6 Harlocker, Susan L.
7 Jiang, Yuqui
8 Henderson, Robert A.
9 Kalos, Michael D.
10 Fanger, Gary R.
11 Retter, Marc W.
12 Stolk, John A.
13 Day, Craig H.
14 Vedvick, Thomas S.
15 Carter, Darrick
16 Li, Samuel
17 Wang, Aijun
18 Skeiky, Yasir A.W.
19 Hepler, William
24 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
25 DIAGNOSIS OF PROSTATE CANCER
27 <130> FILE REFERENCE: 210121.42718C18
C--> 29 <140> CURRENT APPLICATION NUMBER: US/09/651,236
C--> 30 <141> CURRENT FILING DATE: 2000-08-29
32 <160> NUMBER OF SEQ ID NOS: 865
34 <170> SOFTWARE: FastSEQ for Windows Version 3.0
36 <210> SEQ ID NO: 1
37 <211> LENGTH: 814
38 <212> TYPE: DNA
39 <213> ORGANISM: Homo sapien
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42 <221> NAME/KEY: misc_feature
43 <222> LOCATION: (1)...(814)
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46 <400> SEQUENCE: 1
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48 atcaaatctg aggggtgtct ggaggacttc aatacacctc ccccatagat gaatcagctt 120
49 ccaggggggtc cagtccctct ccttacttca tccccatccc atgccaaagg aagaccctcc 180
50 ctcccttggtc cacagccttc tctaggcttc ccagtgcctc caggacagag tgggttatgt 240
51 tttcagctcc atccttgctg tgagtgtctg gtgcgttggt cctccagctt ctgctcagtg 300
52 cttcatggac agtgctcagc acatgtcact ctccactctc tcagtgtgga tccactagtt 360
53 ctagagcggc cgccaccgag gtggagctcc agcttttggt cccttttagt aggggttaatt 420
54 gcgcgcttgg cgtaatcatg gtcataactg tttcctgtgt gaaattgtta tccgtcaca 480
55 attccacaca acatacagc cggaagcata aagtgtaaag cctgggggtg ctaatgagtg 540
56 anctaaactca cattaattgc gttgcgctca ctgnccgctt tccagtcngg aaaactgtcg 600
57 tgccagctgc attaatgaat cggccaacgc ncgggggaaaa gcggtttgct ttttgggggc 660
58 tcttccgctt ctcgctcact nantcctgag ctcggtcctt cggtctcggt gaacggtatc 720
59 actcctcaaa gnggtatta cgtttatccn naaatcnggg gatacccnng aaaaaanttt 780
W--> 60 aacaaaaggg cancaaaggg cngaaacgta aaaa 814

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/651,236

DATE: 09/12/2000
TIME: 12:37:28

Input Set : A:\427c18.app
Output Set : N:\CRF3\09122000\I651236.raw

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62 <210> SEQ ID NO: 2
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68 <221> NAME/KEY: misc_feature
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74 ttcatggctg ttggagcaat agaaccacag ttctacgagc tgctgatcaa aggacttgga      120
75 ctaaagtctg atgaacttcc caatcagatg agcatggatg attggccaga aatgaagaag      180
76 aagtttgtag atgtatttgc aaagaagacg aaggcagagt ggtgtcaaat ctttgacggc      240
77 acagatgcct ggttgactcc ggttctgact ttgaggaggg ttgttcatca tgatcacaac      300
78 aaggaacggg gctcgtttat caccagttag gaggcaggag tgagcccccg ccctgcacct      360
79 ctgctgttaa acacccacag catcccttct ttcaaaaggg atccactagt tctagaagcg      420
80 gccgccaccg cgggtggagt ccagcttttg ttcccttttag tgagggttaa ttgcgcgctt      480
81 ggcgtaatac tggtcatagc tgttctctgt gtgaaattgt tatccgctca caattccccc      540
82 aacatacgag ccggaacata aagtgttaag cctgggggtgc ctaatgantg agctaactcn      600
W--> 83 cattaattgc gttgcgctca ctgcccgttt tccagtcggg aaaactgtcg tgccactgcn      660
W--> 84 ttantgaatc ngccaccccc cgggttgctt ttgggcctct tccgctttcc      720
W--> 85 tcgctcattg atcctngcnc ccggtcttcg gctgcggnga acggttcaact cctcaaaggc      780
W--> 86 ggtntnccgg ttatccccaa acnggggata cccnga      816

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89 <211> LENGTH: 773
90 <212> TYPE: DNA
91 <213> ORGANISM: Homo sapien
93 <220> FEATURE:
94 <221> NAME/KEY: misc_feature
95 <222> LOCATION: (1)...(773)
96 <223> OTHER INFORMATION: n = A,T,C or G
98 <400> SEQUENCE: 3
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101 tcctcaaaag tcagaaccgg agtcacacag gcactctgtc cgtcaaagat ttgacaccac      180
102 tctgccttcg tcttctttgc aaatacatct gcaaaacttct tcttcatttc tggccaatca      240
103 tccatgctca tctgattggg aagttcatca gactttagtc canntccttt gatcagcagc      300
W--> 104 tcgtagaact ggggttctat tgcctcaaca gccatgaatt ccccatctgc tgtcctgtaa      360
105 gtcgtataga aagggtgctc accatccaac atgttctgtc ctgcaggggg ggcgccgtac      420
W--> 106 ccaattcgcc ctatantgag tcgtattacg cgcgctcaact ggccgtcgtt ttacaacgtc      480
107 gtgactggga aaaccctggg cgttaccaac ttaatcgctt tgcagacat ccccttttcg      540
W--> 108 ccagctgggc gtaatanaga aaaggccgcg accgatcgcc ctccaacag ttgcgcacct      600
W--> 109 gaatgggnaa atgggacccc cctgttacgg cgcattnaac ccccgcnagg tttngttggt      660
W--> 110 acccccacnt nnaccgctta cactttgcca gcgccttanc gcccgtctcc ttttnccttt      720
W--> 111 cttcccttcc ttttncnecn ctttcccccg gggtttcccc cntcaaacc cna      773

113 <210> SEQ ID NO: 4
114 <211> LENGTH: 828
115 <212> TYPE: DNA
116 <213> ORGANISM: Homo sapien

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RAW SEQUENCE LISTING

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118 <220> FEATURE:
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125 aatgggcaga cacagggtga tgccaatggt tctgaaatgg gtataatttc gtcctctcct 120
126 tcggaacact ggcgtgtctt gaagacttct cgctcagttt cagtggagac acacacaaaag 180
127 acgtgggtga ccatgttgtt tgtgggtgac agagatggga ggggtggggc ccaccctgga 240
128 agagtggaca gtgacacaaag gtggacactc tctacagatc actgaggata agctggagcc 300
W--> 129 acaatgcatt aggcacacac acagcaagga tgacnctgta aacatagccc acgctgtcct 360
W--> 130 gngggcactg ggaagcctan atnaggccgt gagcanaaag aaggggagga tccactagtt 420
W--> 131 ctanagcggc cgccaccgcy gtgganctcc ancttttgtt ccctttagtg agggttaatt 480
W--> 132 gcgcgcttgg cntaatcatg gtcatanctn ttctctgtgt gaaattgtta tccgctcaca 540
W--> 133 attccacaca acatacganc cggaacataa aantgtaaac ctgggggtgc taatgantga 600
W--> 134 ctactccaca ttaattgcgt tgcgctcact gcccgctttc caatcnggaa acctgtcttg 660
W--> 135 ccncttgcatt tnatgaatcn gccaaacccc ggggaaaagc gtttgcgttt tgggcgctct 720
W--> 136 tccgcttctt cncctantta ntcctncnc tcggtcatte cggctgcngc aaaccgggttc 780
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139 <210> SEQ ID NO: 5
140 <211> LENGTH: 834
141 <212> TYPE: DNA
142 <213> ORGANISM: Homo sapien
144 <220> FEATURE:
145 <221> NAME/KEY: misc_feature
146 <222> LOCATION: (1)...(834)
147 <223> OTHER INFORMATION: n = A,T,C or G
149 <400> SEQUENCE: 5
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151 agtttttaatt gcatccaaag tactaacaaa aactctagca atcaagaatg gcagcatggt 120
152 attttataac aatcaacacc tgtggctttt aaaatttggg ttccataaga taattttatc 180
153 tgaagtaaat ctgagccatgc ttttaaaaaa tgcttttaggt cactccaagc ttggcagtta 240
154 acattttggca taaacaataa taaaacaatc acaatttaat aaataacaaa tacaacattg 300
155 taggccataa tcatatacag tataaggaaa aggtggtagt gttgagtaag cagttattag 360
156 aatagaatac cttggcctct atgcaaatat gtctagacac tttgattcac tcagccctga 420
157 cattcagttt tcaaaagtag agacagggtc tacagtatca ttttacagtt tccaacacat 480
158 tgaacaacaag tagaaaatga tgagttgatt tttattaatg cattacatcc tcaagagtta 540
159 tcaccaaccc ctcagttata aaaaattttc aagttatatt agtcatataa cttggtgtgc 600
160 ttatttttaa ttagtgctaa atggattaag tgaagacaac aatggtcccc taatgtgatt 660
W--> 161 gatattggtc atttttacca gtttctaaat ctnaactttc aggcttttga actggaacat 720
W--> 162 tgnatnacag tgttccanag ttncaccta ctggaacatt acagtgtgct tgattcaaaa 780
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165 <210> SEQ ID NO: 6
166 <211> LENGTH: 818
167 <212> TYPE: DNA
168 <213> ORGANISM: Homo sapien
170 <220> FEATURE:
171 <221> NAME/KEY: misc_feature
172 <222> LOCATION: (1)...(818)

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173 <223> OTHER INFORMATION: n = A,T,C or G
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177 aaccacatct acaaaatgcc agtatcaggg ggcggcttcg aagccaaagt gatgtttgga 120
178 tgtaaaagtga aatattagtt ggcggatgaa gcagatagtg aggaaagtgg agccaataat 180
179 gacgtgaagt ccgtggaagc ctgtggctac aaaaaatggt gagccgtaga tgccgtcgga 240
180 aatgggtgaag ggagactcga agtactctga ggcttgtagg agggtaaaat agagaccag 300
181 taaaattgta ataagcagtg cttgaattat ttggtttcgg ttgttttcta ttagactatg 360
182 gtgagctcag gtgattgata ctctgatgc gagtaatagc tgccctccta gttgggggggt 420
183 ttctagggga tttagcgggg tgatgcctgt tggggggccag tgccctccta gttgggggggt 480
184 aggggctagg ctggagtggt aaaaggctca gaaaaatcct gcgaagaaaa aaacttctga 540
185 ggtaataaat aggattatcc cgtatcgaag gcctttttgg acagggtggt tgtgggtggc 600
186 ttgggtatgtg ctttctcgtg ttacatcgcg ccatcattgg tataatggtta gtgtgttggg 660
W--> 187 ttantanggc ctantatgaa gaacttttgg antggaatta aatcaatngc ttggccggaa 720
W--> 188 gtcattanga nggctnaaaa ggcctgttta ngggtctggg ctnggtttta cccnaccat 780
W--> 189 ggaatncncc ccccggaana ntgnatccct attcttaa 818
191 <210> SEQ ID NO: 7
192 <211> LENGTH: 817
193 <212> TYPE: DNA
194 <213> ORGANISM: Homo sapien
196 <220> FEATURE:
197 <221> NAME/KEY: misc_feature
198 <222> LOCATION: (1)...(817)
199 <223> OTHER INFORMATION: n = A,T,C or G
201 <400> SEQUENCE: 7
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203 cgggccctat ttcaaagatt tttaggggaa ttaattctag gacgatgggt atgaaactgt 120
204 ggtttgctcc acagatttca gagcattgac cgtagtatac ccccggtcgt gtagcgttga 180
205 aagtgggttg gtttagacgt ccgggaattg catctgtttt taagcctaata gtggggacag 240
W--> 206 ctcatgagtg caagacgtct tgtgatgtaa ttattatacn aatgggggct tcaatcgga 300
207 gtactactcg attgtcaacg tcaaggagtc gcaggctcgc tggttctagg aataatgggg 360
208 gaagtatgta ggaattgaag attaatccgc cgtagtccgt gttctcctag gttcaatacc 420
209 attggtggcc aattgatttg atggtaaggg gagggatcgt tgaactcgtc tgttatgtaa 480
W--> 210 aggatncctt ngggatggga aggcnatnaa ggactangga tnaatggcgg gcangatatt 540
W--> 211 tcaaacngtc tctanttcct gaaacgtctg aaatgttaat aanaattaan tttngttatt 600
W--> 212 gaatttttng gaaaagggct tacaggacta gaaaccaaata angaaaanta atnntaangg 660
W--> 213 cnttatentn aaaggtatata accnctccta tnatccacc caatngnatt cccacnenn 720
W--> 214 acnattggat nccccanttc canaaanggc ccccccccg tgnannccnc ctttgttcc 780
W--> 215 cttnantgan ggttattenc ccttngcntt atcancc 817
217 <210> SEQ ID NO: 8
218 <211> LENGTH: 799
219 <212> TYPE: DNA
220 <213> ORGANISM: Homo sapien
222 <220> FEATURE:
223 <221> NAME/KEY: misc_feature
224 <222> LOCATION: (1)...(799)
225 <223> OTHER INFORMATION: n = A,T,C or G
227 <400> SEQUENCE: 8
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/651,236

DATE: 09/12/2000
TIME: 12:37:28

Input Set : A:\427ci8.app
Output Set : N:\CRF3\09122000\I651236.raw

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229 cataaggaga actttctgct ggcacgcgct agggacaagc gggagagcga ctccgagcgt 120
230 ctgaagcgca cgtcccagaa ggtggacttg gcaactgaaac agctgggaca catccgcgag 180
231 tacgaacagc gcctgaaagt gctggagcgg gaggtccagc agtgtagccg cgtcctgggg 240
W--> 232 tgggtggcgg ancgctganc cgtctgcct tgctgcccc angtgggccg ccaacccctg 300
W--> 233 acctgcctgg gtccaaacac tgagccctgc tggcggactt caagganaac cccacacang 360
W--> 234 ggattttgct cctanantaa ggtcctctg ggcctcgcc cccccacctg gttggcctg 420
W--> 235 tcttttgangt gagccccatg tccatctggg ccaactgtcng gaccacctt ngggagtgtt 480
W--> 236 ctccctacaa ccacannatg cccggctcct cccggaaacc antccancc tngaaaggt 540
W--> 237 caagnccctgn atccactnnt nctanaaccg gccnccnccg cngtggaaac cnccttntgt 600
W--> 238 tccttttct tnaagggttaa tnnccgcttg gccttncan ngctctncnc ntttccnnt 660
W--> 239 gttnaaattg ttangcnccc nccnntccn cncnncnncn cccgaccnnc annttnnann 720
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W--> 241 ctttccctct nggganncg 799
243 <210> SEQ ID NO: 9
244 <211> LENGTH: 801
245 <212> TYPE: DNA
246 <213> ORGANISM: Homo sapien
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249 <221> NAME/KEY: misc_feature
250 <222> LOCATION: (1)...(801)
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256 caaggacaag gccaccaggt gcgggggccc aagccacat gatccttact ctatgagcaa 180
W--> 257 aatccctgt gggggcttct ccttgaagtc cgccancagg gctcagtctt tggaccang 240
W--> 258 caggtcatgg ggttgtnngc caactggggg ccncaacgca aaangcnca gggcctcngn 300
W--> 259 caccatccc angacgcggc tacactnctg gacctccnc tccaccactt tcatgcctg 360
W--> 260 ttctacccg cgnatntgtc ccanctgttt cngtgccnnc tccancttct nggacgtgcg 420
W--> 261 ctacatacgc cgggantcnc nctcccgtt tgctccctatc cactgtccn caacaaattt 480
W--> 262 cncctantg caccnatccc cacttttnc agntttcnc nncgngcttc cttntaaaag 540
W--> 263 ggttgancgc cggaaaatnc cccaaagggg gggggccngg tacccaactn cccctnata 600
W--> 264 gctgaantcc ccatnaccnn gnetcnatgg anccctcct ttttaannacn ttctnaactt 660
W--> 265 ggggaanacc ctgcgnccntn ccccncttaa tcccncttg cnangnncnt ccccnntcc 720
W--> 266 ncccnntng gcntntnann cnaaaaaggc cennnancaa tctcctnncn cctcanttgc 780
W--> 267 ccancctcg aaatcgccn c 801
269 <210> SEQ ID NO: 10
270 <211> LENGTH: 789
271 <212> TYPE: DNA
272 <213> ORGANISM: Homo sapien
274 <220> FEATURE:
275 <221> NAME/KEY: misc_feature
276 <222> LOCATION: (1)...(789)
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281 acagtgtggc cgtgggtgaca gcttcagccg ccttcaccgg gttcaccttc tcagccctgc 120
282 agatcctgcc ctacacactg gcctccctct accaccggga gaagcaggtg ttcttgccca 180
283 aataccgagg ggacactgga ggtgctagca gtgaggacag cctgatgacc agcttctgc 240

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✓ FYI

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/651,236DATE: 09/12/2000
TIME: 12:37:29Input Set : A:\427c18.app
Output Set: N:\CRF3\09122000\I651236.raw

L:29 M:270 C: Current Application Number differs, Wrong Format
L:30 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:58 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
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L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
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L:239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

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Input Set : A:\427c18.app
Output Set: N:\CRF3\09122000\I651236.raw

L:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9